Format No: CP/TF/01

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-06-01-02** **Date: 02-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to main & Cross roads at Havnoor layout in Ward No.14, in Bagalagunte.
Agency	:	Sri.G.N. Ramesh, #01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.
Customer's Reference	:	EE/DD/WO/116/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	01-06-17
Sample ID No	:	2017-06-01-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	01-06-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	62	60 to 70
2	Softening Point, °C	45.6	Min. 40°C
3	Ductility, cm	99	Min. 75cm
4	Flash point, °C	238	Min. 220°C
	Fire point, °C	252	

Note:

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Quality Manager

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2017-06-13-03**	**Date: 16-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to main & Cross roads at Havnoor layout in Ward No.14, in Bagalagunte.	
Agency	:	Sri.G.N. Ramesh, #01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.	
Customer Reference	:	EE/DD/WO/116/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	13-06-17	
Sample ID No	:	2017-06-13-03/01	
Type of Mix	:	BC (Bituminous Concrete)	
Date of test	:	13-06-17	

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	10.8	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	13.2		
Strength	Aggregate Impact Value	24.5	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.22	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.45	Maximum 2%	IS:2386 Part III

Note:-

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ಕೆ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ
ಬೆಂಗಳೂರು

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-05-29-03**	**Date: 31-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to main & Cross roads at Havnoor layout in Ward No.14, in Bagalagunte.	
Agency	:	Sri.G.N. Ramesh, #01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.	
Customer Reference	:	EE/DD/WO/116/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	29-05-17	
Sample ID No	:	2017-05-29-03/01	
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
Date of test	:	29-05-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.0	302.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	79.0	65.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	222.7	236.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	26.2	21.5
6	Aggregate impact value (Mean of two tests)	Pecentage	23.8	

Note:-

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ಬಾಗಲಗುಂಟೆ, ಬಿಬಿಎಂಪಿ

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-06-04-03**	**Date: 06-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to main & Cross roads at Havnoor layout in Ward No.14, in Bagalagunte.	
Agency	:	Sri.G.N. Ramesh, #01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.	
Customer Reference	:	EE/DD/WO/116/17-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-06-17	
Sample ID No	:	2017-06-04-03/01	
Type of Mix	:	BM-Plant (Bituminous Macadam)	
Date of test		04-06-17	
Weight of Sample(gm)	:	5000	

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	400	400	8.0	92.0	90-100
13.2	900	1300	26.0	74.0	56-88
4.75	1950	3250	65.0	35.0	16-36
2.36	1100	4350	87.0	13.0	4-19
0.3	200	4550	91.0	9.0	2-10
0.075	402	4952	99.0	1.0	0-8
PAN	48	5000	100.0	0.0	0

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ಬಿ.ಬಿ.ಎಂ.ಪಿ ಉಪ-ವಿಭಾಗ
ದಾಸರಹಳ್ಳಿ, ಬೆಂಗಳೂರು

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-06-20-02**	**Date: 21-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to main & Cross roads at Havnoor layout in Ward No.14, in Bagalagunte.	
Agency	:	Sri.G.N. Ramesh, #01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.	
Customer Reference	:	EE/DD/WO/116/17-18	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	20-06-17	
Sample ID No	:	2017-06-20-02/01	
Type of Mix	:	BM (Bituminous Macadam)	
Date of test	:	20-06-17	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	476	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.80	4.60
4	Average percentage	%	4.70	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-06-13-03** **Date: 16-06-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to main & Cross roads at Havnoor layout in Ward No.14, in Bagalagunte.
Agency	:	Sri.G.N. Ramesh, #01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extension, Bangalore-560 021.
Customer Reference	:	EE/DD/WO/116/17-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-06-17
Sample ID No	:	2017-06-13-03/01
Type of Mix	:	BC(Bitumenous Concrete)
Date of test	:	13-06-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	97.2	2.8	97.8	Minimum Retained Coating 95%
2	97.5	2.5		
3	98.8	1.2		

Note:-
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